

# United States Patent and Trademark Office

UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Address: COMMISSIONER FOR PATENTS P.O. Box 1450 Alexandria, Virginia 22313-1450 www.uspto.gov

APPLICATION NO.	F	ILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/648,632		08/25/2003	Yonghua Song	MP0239	MP0239 4348	
26200	7590	08/18/2005		EXAMINER		
FISH & RI		SON P.C.		NGUYEN,	KHANH V	
		N 55440-1022		ART UNIT	PAPER NUMBER	
	•			2817		
				DATE MAILED: 08/18/200	5	

Please find below and/or attached an Office communication concerning this application or proceeding.

			3480
	Application No.	Applicant(s)	
Office Astinus O	10/648,632	SONG ET AL.	
Office Action Summary	Examiner	Art Unit	
	Khanh V. Nguyen	2817	
<ul> <li>The MAILING DATE of this communication</li> <li>Period for Reply</li> </ul>	appears on the cover sheet wi	th the correspondence addres	is -
A SHORTENED STATUTORY PERIOD FOR RETHE MAILING DATE OF THIS COMMUNICATION  - Extensions of time may be available under the provisions of 37 CF after SIX (6) MONTHS from the mailing date of this communication  - If the period for reply specified above is less than thirty (30) days, and the period for reply is specified above, the maximum statutory period for reply within the set or extended period for reply will, by some Any reply received by the Office later than three months after the rearned patent term adjustment. See 37 CFR 1.704(b).	ON. R 1.136(a). In no event, however, may a ron. a reply within the statutory minimum of thirtyeriod will apply and will expire SIX (6) MON statute, cause the application to become AB	eply be timely filed  (30) days will be considered timely.  THS from the mailing date of this commu  ANDONED (35 U.S.C. § 133).	nication.
Status			
1) Responsive to communication(s) filed on 0	02 August 2005.		
<u> </u>	This action is non-final.		
3) Since this application is in condition for allocation accordance with the practice under the condition of the condition		•	rits is
Disposition of Claims			
4)	ndrawn from consideration. 36-43,45 and 46 is/are rejected		
Application Papers			
9)☐ The specification is objected to by the Exar	miner.		
10)⊠ The drawing(s) filed on <u>25 August 2003</u> is/a	are: a)∏ accepted or b)⊠ ob	ected to by the Examiner.	
Applicant may not request that any objection to	the drawing(s) be held in abeyan	ce. See 37 CFR 1.85(a).	
Replacement drawing sheet(s) including the co			
Priority under 35 U.S.C. § 119			
12) Acknowledgment is made of a claim for force a) All b) Some * c) None of:  1. Certified copies of the priority docum 2. Certified copies of the priority docum 3. Copies of the certified copies of the application from the International Bu * See the attached detailed Office action for a	nents have been received. nents have been received in A priority documents have been reau (PCT Rule 17.2(a)).	oplication No received in this National Sta	ge
Attachment(s)	»□··· -	/DTC 442)	
<ol> <li>Motice of References Cited (PTO-892)</li> <li>Notice of Draftsperson's Patent Drawing Review (PTO-948</li> </ol>		ummary (PTO-413) )/Mail Date	
3) Information Disclosure Statement(s) (PTO-1449 or PTO/SE Paper No(s)/Mail Date	•	formal Patent Application (PTO-152	<b>')</b>

Art Unit: 2817

### **DETAILED ACTION**

## **Drawings**

The drawings are objected to under 37 CFR 1.83(a). The drawings must show every feature of the invention specified in the claims. Therefore, the "gain stage" must be shown or the feature(s) canceled from the claim(s). No new matter should be entered.

Corrected drawing sheets in compliance with 37 CFR 1.121(d) are required in reply to the Office action to avoid abandonment of the application. Any amended replacement drawing sheet should include all of the figures appearing on the immediate prior version of the sheet, even if only one figure is being amended. The figure or figure number of an amended drawing should not be labeled as "amended." If a drawing figure is to be canceled, the appropriate figure must be removed from the replacement sheet, and where necessary, the remaining figures must be renumbered and appropriate changes made to the brief description of the several views of the drawings for consistency. Additional replacement sheets may be necessary to show the renumbering of the remaining figures. Each drawing sheet submitted after the filing date of an application must be labeled in the top margin as either "Replacement Sheet" or "New Sheet" pursuant to 37 CFR 1.121(d). If the changes are not accepted by the examiner, the applicant will be notified and informed of any required corrective action in the next Office action. The objection to the drawings will not be held in abeyance.

# Claim Rejections - 35 USC § 112

The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

Claims 1, 4, 9, 13, 14, 15, 21, 24, 29, 33, 34, 37, 42, 46 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

It is not clear from the drawings which "gain stage" is intended. As best understood by the examiner, an output node (336A/336B) is coupled between input transistor (310/312) and a programmable resistance (T1, T2 and R1), and not "gain stage" as claimed.

### Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(e) the invention was described in a patent granted on an application for patent by another filed in the United States before the invention thereof by the applicant for patent, or on an international application by another who has fulfilled the requirements of paragraphs (1), (2), and (4) of section 371(c) of this title before the invention thereof by the applicant for patent.

The changes made to 35 U.S.C. 102(e) by the American Inventors Protection Act of 1999 (AIPA) and the Intellectual Property and High Technology Technical Amendments Act of 2002 do not apply when the reference is a U.S. patent resulting directly or indirectly from an international application filed before November 29, 2000.

Application/Control Number: 10/648,632

Art Unit: 2817

Therefore, the prior art date of the reference is determined under 35 U.S.C. 102(e) prior to the amendment by the AIPA (pre-AIPA 35 U.S.C. 102(e)).

Claims 4, 24, 37 are rejected under 35 U.S.C. 102(e) as being anticipated by Tanji et al. (6,583,661) or Yang (6,563,382), which are already cited in the First Office Action (11/02/04).

Tanji et al. (Fig. 4) disclose an amplifier circuit comprising: a differential pair (308, 310), a transistor (330/332) operable as a switch in parallel with a resistor (314/316) can be read as a programmable resistance; and an output node (320) coupled between the transistor (330/332) and the programmable resistance, wherein the switch (330/332) can be configured to operate as claimed invention.

Yang (Fig. 3) discloses a variable gain amplifier comprising: a differential pair (Q1, Q2), a transistor (M1/M2) operable as a switch in parallel with a resistor (R1/R2) can be read as a programmable resistance; and an output node (VOUTP, VOUTN) coupled between the transistor (M1/M2) and the programmable resistance, wherein the switch (M1/M2) can be configured to operate as claimed invention.

## Allowable Subject Matter

Claims 1, 3, 5-10, 12-15, 17-20, 23, 25-30, 32-34, 36, 38-43, 45, 46 would be allowable if rewritten or amended to overcome the rejection(s) under 35 U.S.C. 112, 2nd paragraph, set forth in this Office action.

Claims 1, 3, 5-10, 12-15, 17-20, 23, 25-30, 32-34, 36, 38-43, 45, 46 call for, among others, a plurality of switches in parallel with a resistive element having the connections thereof.

Art Unit: 2817

### Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Khanh V. Nguyen whose telephone number is (571) 272-1767. The examiner can normally be reached from 8:00 AM - 3:30 PM EST.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Robert Pascal can be reached on (571) 272-1769. The fax phone numbers for the organization where this application or proceeding is assigned are (703) 872-9306 for regular communications and (703) 872-9306 for After Final communications.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

PRIMARY EXAMINER

Whanklandqueen

Page 5

**Art Unit: 2817**